



>50,000 HOUR LIFETIME

<25 μ secs ON-OFF TIME

TTL CONTROL (WITH POLARITY SWITCH)

VERY STABLE OUTPUT

COMPACT STAND-ALONE DESIGN

EASY INSTALLATION



LAMBDA TLED/TLED+ LED TRANSMITTED LIGHT SOURCE

The **Lambda TLED and TLED+** are stand-alone LED light sources that can be used with the transmitted light path of a microscope or in other applications with similar requirements.

This basic system consists of an LED mounted on a special black-anodized aluminum heat sink and a controller. The **Lambda TLED and TLED+** controllers are powered by a rugged modular universal power supply. The controllers provide intensity control and on-off control via a toggle switch or TTL logic. The on-off time is <25 μ secs when using TTL control. In addition to digital input control, the **Lambda TLED+** has analog input to modulate the LED intensity. The **Lambda TLED and TLED+** are expected to have stable output that will last in excess of 50,000 hours.

The **Lambda TLED and TLED+** can be ordered with a high-output white light LED, making it a suitable light source for contrast methods, including Phase, and Differential Interference Contrast (DIC).

Each **Lambda TLED/TLED+** system includes an optical mounting adapter for the microscope and detailed installation instructions. Mounting adapters are designed to fit most models of Nikon, Olympus, Zeiss and Leica microscopes. Custom adapters for the **Lambda TLED/TLED+** are available at an additional cost.

The **TLED-FT** is a powerful and compact array of 9 LEDs used to deliver a homogenized beam of light to the sample. Useful for illuminating a 96 well plate, the **TLED-FT** is available in blue, green, red and white light configurations. The **TLED** controller provides stable, adjustable light intensity by switch or TTL. Ideal for optogenetics, and transparent samples.

The **TLED-RL** is a ring light illuminator for stereo microscopes with lenses up to 65mm in outside diameter. The ring light is composed of a circular assembly of many white light LEDs that provides even and direct illumination of the sample.

TLED: Includes Lambda TLED light source, TLED controller, white light LED, and power supply.

TLED-N Lambda TLED for Nikon
TLED-N40 Lambda TLED for Nikon E400/E600
TLED-N50 Lambda TLED for Nikon AZ100
TLED-N65 Lambda TLED for Nikon FN1
TLED-Y Lambda TLED for Olympus
TLED-Z Lambda TLED for Zeiss
TLED-L Lambda TLED for Leica
TLED-C Lambda TLED with C-mount

TLED+: Includes Lambda TLED+ light source, TLED+ controller, white light LED, and power supply.

TLEDPLUS-N Lambda TLED+ for Nikon
TLEDPLUS-N25¹ Lambda TLED+ for Nikon TE200/300, Diaphot 200/300
TLEDPLUS-Y Lambda TLED+ for Olympus
TLEDPLUS-Z Lambda TLED+ for Zeiss
TLEDPLUS-L Lambda TLED+ for Leica
TLEDPLUS-C Lambda TLED+ with C-mount

TLED-RBG Includes Lambda TLED-RGB light source, TLED controller, and power supply.

TLED-RGB-N Lambda TLED-RGB for Nikon
TLED-RGB-Y Lambda TLED-RGB for Olympus

TLED-FT LED light array
TLED-FT Lambda TLED-FT light array

TLED-RL Includes Lambda TLED-RL light source, TLED controller, and ring light.

TLED-RGL Lambda TLED-RL reflected light illuminator

^{*} Custom mounting adapters are available for all models at an additional cost. Contact Sutter for details.

¹ Replaces the epi-illuminator.



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MADE IN USA

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